

Commonwealth of Kentucky
Division for Air Quality
PERMIT STATEMENT OF BASIS

Title V Draft Permit No. V-04-042

Lafarge North America

Silver Grove, Kentucky

September 27, 2004

WILLIAM L. WRIGHT, REVIEWER

Plant ID# 21-037-00090

Agency ID# 591

Application Log # 56439

SOURCE DESCRIPTION:

Lafarge operates a synthetic gypsum wallboard forming facility in Silver Grove, Kentucky (Kentucky Plant I. D. Number 021-037-00090). The facility, which commenced operation on June 25, 2000, produces wallboard from synthetic gypsum (calcium sulfate dihydrate [CaSO₄•2H₂O]). The Silver Grove facility generates airborne pollutants, primarily from combustion of natural gas and from the handling and processing of gypsum and other raw materials.

Emission Factors:

Emission factors for PM/PM₁₀ were based on source testing or on AP-42 factors for gypsum and similar operations. Emissions factors for CO and NO_x were based on source testing with the exception of the Paper Dryer units, for which emission factors were based on AP-42. All VOC and SO₂ emission factors were based on AP-42.

Applicable regulation:

401 KAR 63:010 Fugitive Emissions.

401 KAR 60:670 Standards of Performance for Nonmetallic Mineral Processing Plants commenced on or after August 31, 1983 applies to the particulate matter (PM) and visible emissions.

401 KAR 59:010 New Process Operations commenced on or after July 2, 1975 applies to particulate matter (PM/PM₁₀) emissions and visible emissions.

401 KAR 60:005 (40 CFR Subpart UUU) Standards of Performance for Calciners and Dryers in Mineral Industries commenced on or after July 2, 1975 applies to the particulate matter (PM) emissions and visible emissions.

PERIODIC MONITORING:

Once per month, the Permittee shall inspect the entire length of the wind screen barrier installed on the property fencing, checking the physical integrity and attachment of the screen material. Tears or detachments noted shall be addressed through repairs or replacements.

CREDIBLE EVIDENCE:

This permit contains provisions which require that specific test methods, monitoring or recordkeeping be used as a demonstration of compliance with permit limits. On February 24, 1997, the U.S. EPA promulgated revisions to the following federal regulations: 40 CFR Part 51, Sec. 51.212; 40 CFR Part 52, Sec. 52.12; 40 CFR Part 52, Sec. 52.30; 40 CFR Part 60, Sec. 60.11 and 40 CFR Part 61, Sec. 61.12, that allow the use of credible evidence to establish compliance with applicable requirements. At the issuance of this permit, Kentucky has not incorporated these provisions in its air quality regulations.